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**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) In a network environment comprising a data processing system coupled to a storage area network (SAN), a method of dynamically loading code modules, the method comprising:

executing a program on the data processing system, and upon execution:

accessing device information, the device information comprising information identifying a set of SAN device identifiers and a set of code modules associated with the set of SAN device identifiers;

loading the set of code modules referenced by the device information into an address space of the executing program;

while executing the program:

providing a signal to the executing program indicating that the device information has been modified to produce modified device information;

in response to the signal:

deleting the set of code modules referenced by the device information before modification from the address space of the executing program;

accessing the modified device information; and

loading a set of code modules referenced by the modified device information into the address space of the executing program.

2. (currently amended) The method of claim [[I]] wherein:

the device information includes at least a first SAN device identifier associated with a first code module, and in the modified device information the first SAN device identifier is associated with a second code module instead of the first code module; and

loading the set of code modules referenced by the modified device information into the address space of the executing program comprises loading the second code module into the address space of the executing program.

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3. (original) The method of claim 2 further comprising:

before receiving the signal:

scanning the SAN to discover a set of SAN devices, the set of SAN devices including a first SAN device whose device identifier matches the first SAN device identifier; and

using the first code module associated with the first SAN device identifier to monitor the first SAN device; and

after loading the set of code modules referenced by the modified device information into the address space of the executing program:

using the second code module instead of the first code module to monitor the first SAN device.

4. (original) The method of claim 1 wherein:

the device information includes at least a first SAN device identifier associated with a first code module, and the modified device information includes information identifying a second SAN device identifier and a code module associated with the second SAN device identifier, the second device identifier not included in the device information before modification; and

loading the set of code modules referenced by the modified device information into the address space of the executing program comprises loading the code module associated with the second SAN device identifier into the address space of the executing program.

5. (original) The method of claim 4 further comprising:

scanning the SAN to discover a first SAN device, the SAN device identifier associated with the first SAN device matching the second SAN device identifier; and

using the code module associated with the second SAN device identifier to monitor the first SAN device.

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6. (original) The method of claim 1 further comprising:

before receiving the signal:

scanning the SAN to discover a first set of SAN devices; and

for each SAN device in the first set of SAN devices:

if the identifier associated with the SAN device matches a SAN device identifier in the set of SAN device identifiers included in the device information, using the code module associated with the matching SAN device identifier to monitor the SAN device.

7. (original) The method of claim 1 wherein the device information is stored in a plurality of files, each file including information related to a SAN device identifier from the set of SAN device identifiers and information related to a code module associated with the SAN device identifier.

8. (original) In a network environment comprising a data processing system coupled to a storage area network (SAN), a method of loading code modules, the method comprising:

executing a program on the data processing system;

accessing device information, the device information including information related to a set of SAN device identifiers and information identifying a set of code modules associated with the set of SAN device identifiers, the device information including information related to a first SAN device identifier and a first code module associated with the first SAN device identifier;

loading the set of code modules identified in the device information into an address space of the executing program;

using the set of code modules to monitor devices coupled to the SAN whose device identifiers match identifiers in the set of SAN device identifiers;

while executing the program:

providing a signal to the executing program indicating that the device information has been modified, the modified device information not including information related to the first SAN device identifier; and

in response to the signal:

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deleting the first code module associated with the first SAN device identifier from the address space of the executing program.

9. (original) The method of claim 8 wherein:

the device information before modification is stored in a set of files, each file including information related to a SAN device identifier from the set of SAN device identifiers and information related to a code module associated with the SAN device identifier, the set of files including a first file including information related to the first SAN device identifier and information identifying the first code associated with the first SAN device identifier; and

the modified device information is stored in a set of files not including the first file.

10. (currently amended) In a network environment comprising a data processing system coupled to a storage area network (SAN), a method of loading code modules, the method comprising:

executing a program on the data processing system;

accessing information related to a first SAN device identifier, the information related to the first SAN identifier including information identifying a first code module associated with the first SAN device identifier;

loading the first code module into an address space of the executing program;

while executing the program:

receiving a signal indicating that the information related to the first SAN device identifier has been modified, the modified information identifying a second code module associated with the first SAN device identifier instead of the first code module;

in response to the signal:

deleting the first code module associated with the first SAN device identifier from the address space of the executing program; and

loading the second code module into the address space of the executing program.

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11. (currently amended) The method of claim 10 further comprising:  
before receiving the signal:  
    scanning the SAN to identify at least a first device coupled to the SAN;  
    determining an identifier associated with the[[.]] first device; and  
    if the identifier associated with the first device matches the first SAN  
device identifier, using the first code module loaded into the address space of the  
program to monitor the first device; and  
after loading the second code module:  
    if the identifier associated with the first device matches the first SAN device  
identifier, using the second code module loaded into the address space of the program  
module to monitor the first device.
12. (currently amended) The method of claim 11 wherein using the second  
code module loaded ~~located~~ into the address space of the program to monitor the first  
device comprises:  
    instantiating an object using the second code module;  
    associating the object with the first device; and  
    using the object to monitor the first device.
13. (original) The method of claim 11 wherein determining the identifier  
associated with the first device comprises using SNMP protocol to determine the  
identifier.
14. (original) In a network environment comprising a data processing system  
coupled to a storage area network (SAN), a method of loading code modules, the method  
comprising:  
    executing a program on the data processing system;  
    accessing devices information comprising a set of SAN device identifiers  
including a first SAN device identifier, the devices information further comprising  
information identifying code modules associated with SAN device identifiers in the set of  
SAN device identifiers including information identifying a first code module associated  
with the first SAN device identifier;

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loading the set of code modules associated with the set of SAN device identifiers including the first code module into an address space of the executing program;

while executing the program:

receiving a signal indicating that the devices information has been modified, the modified devices information including a second SAN device identifier and a second code module associated with the second SAN device identifier, the second SAN device identifier not included in the set of SAN device identifiers included in the devices information before modification;

in response to the signal:

loading the second code module into the address space of the executing program.

15. (original) The method of claim 14 further comprising:

scanning the SAN to identify a set of devices coupled to the SAN;

for each device in the set of devices:

determining an identifier associated with the device;

if the identifier associated with the device matches the first SAN device identifier, using the first code module loaded into the address space of the program to monitor the device; and

if the identifier associated with the device matches the second SAN device identifier, using the second code module loaded into the address space of the program to monitor the device.

16. (original) The method of claim 15 wherein using the second code module loaded into the address space of the program to monitor the device comprises:

instantiating an object using the second code module;

associating the object with the device whose identifier matches the second SAN device identifier; and

using the object to monitor the device.

17. (original) The method of claim 15 wherein determining the identifier associated with the device comprises using SNMP protocol to determine the identifier.

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18. (original) The method of claim 14 wherein the devices information is stored in a plurality of files, each file including information related to a SAN device identifier from the set of SAN device identifiers and information related to a code module from the set of code modules associated with the SAN device identifier.

19. (original) In a network environment comprising a data processing system coupled to a storage area network (SAN), a method of loading code modules, the method comprising:

- executing a program on the data processing system;

- accessing information related to a SAN device identifier, the information related to the SAN identifier including information identifying a code module associated with the SAN device identifier;

- loading the code module into an address space of the executing program;

- while executing the program:

  - receiving a signal indicating that the code module has been modified;

  - in response to the signal:

    - deleting the previously loaded code module from the address space of the executing program; and

    - loading the modified code module into the address space of the executing program.

20. (currently amended) A computer program product stored on a computer-readable medium for dynamically loading code modules, the computer program product comprising:

- code for accessing device information, the device information comprising information identifying a set of SAN device identifiers and a set of code modules associated with the set of SAN device identifiers; and

- code for loading the set of code modules referenced by the device information into an address space of an executing application program;

- code for using the set of code modules referenced by the device information and loaded into the address space of the executing application program to manage a storage area are-network (SAN);

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code for receiving a signal while the application program is executing, the signal indicating that the device information has been modified to produce modified device information;

code for deleting the set of code modules referenced by the device information before modification from the address space of the executing application program in response to the signal;

code for accessing the modified device information;

code for loading a set of code modules referenced by the modified device information into the address space of the executing application program; and

code for using the set of code modules referenced by the modified device information and loaded into the address space of the executing application program to manage the SAN.

21. (original) The computer program product of claim 20 wherein:

the device information includes at least a first SAN device identifier associated with a first code module, and in the modified device information the first SAN device identifier is associated with a second code module instead of the first code module; and

the code for loading the set of code modules referenced by the modified device information into the address space of the executing application program comprises code for loading the second code module into the address space of the executing application program.

22. (original) The computer program product of claim 20 wherein:

the code for using the set of code modules referenced by the device information and loaded into the address space of the executing application program to manage the SAN comprises:

code for scanning the SAN to discover a set of SAN devices, the set of SAN devices including a first SAN device whose device identifier matches the first SAN device identifier; and

code for using the first code module associated with the first SAN device identifier to manager the first SAN device; and



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the code for using the set of code modules referenced by the modified device information and loaded into the address space of the executing application program to manage the SAN comprises:

code for using the second code module instead of the first code module to manage the first SAN device.

23. (original) The computer program product of claim 20 wherein:

the device information includes at least a first SAN device identifier associated with a first code module, and the modified device information includes information identifying a second SAN device identifier and a code module associated with the second SAN device identifier, the second device identifier not included in the device information before modification;

the code for using the set of code modules referenced by the device information and loaded into the address space of the executing application program to manage the SAN comprises:

code for scanning the SAN to discover a first set of SAN devices; and  
for each SAN device in the first set of SAN devices, if the identifier associated with the SAN device matches a SAN device identifier in the set of SAN device identifiers included in the device information, code for using the code module associated with the matching SAN device identifier to monitor the SAN device;

the code for loading the set of code modules referenced by the modified device information into the address space of the executing application program comprises code for loading the code module associated with the second SAN device identifier into the address space of the executing application program; and

the code for using the set of code modules referenced by the modified device information and loaded into the address space of the application program to manage the SAN comprises:

code for scanning the SAN to discover a first SAN device, the SAN device identifier associated with the first SAN device matching the second SAN device identifier; and

code for using the code module associated with the second SAN device identifier to monitor the first SAN device.

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24. (currently amended) A computer program product stored on a computer readable medium for dynamically loading code modules, the computer program product comprising:

code for accessing device information, the device information including information related to a set of SAN device identifiers and information identifying a set of code modules associated with the set of SAN device identifiers, the device information including information related to a first SAN device identifier and a first code module associated with the first SAN device identifier;

code for loading the set of code modules identified in the device information into an address space of an executing application program;

code for using the set of code modules to manage devices coupled to the SAN whose device identifiers match identifiers in the set of SAN device identifiers;

code for receiving a signal from the executing application program, the signal indicating that the device information has been modified, the modified device information not including information related to the first SAN device identifier; and

code for deleting the first code module associated with the first SAN device identifier from the address space of the executing program in response to the signal.

25. (original) The computer program product of claim 24 wherein:

the device information before modification is stored in a set of files, each file including information related to a SAN device identifier from the set of SAN device identifiers and information related to a code module associated with the SAN device identifier, the set of files including a first file including information related to the first SAN device identifier and information identifying the first code associated with the first SAN device identifier; and

the modified device information is stored in a set of files not including the first file.

26. (currently amended) A computer program product stored on a computer readable medium for loading code modules, the computer program product comprising:

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code for accessing information related to a first SAN device identifier  
~~device identifier~~, the information related to the first SAN identifier including information  
identifying a first code module associated with the first SAN device identifier;  
code for loading the first code module into an address space of an executing  
application program;  
code for using the first code module to manage devices coupled to the SAN;  
code for receiving a signal indicating that the information related to the first SAN  
device identifier has been modified, the modified information identifying a second code  
module associated with the first SAN device identifier instead of the first code module;  
code for deleting the first code module associated with the first SAN device  
identifier from the address space of the executing application program in response to the  
signal;  
code for loading the second code module into the address space of the executing  
application program; and  
code for using the second code module to manage devices coupled to the SAN.

27. (original) The computer program product of claim 26 further comprising:  
the code for using the first code module to manage the devices coupled to the  
SAN comprises:

code for scanning the SAN to identify at least a first device coupled to the  
SAN;  
code for determining an identifier associated with the first device; and  
if the identifier associated with the first device matches the first SAN device  
identifier, code for using the first code module loaded into the address space of the  
executing application program to monitor the first device; and

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the code for using the second code module to manage the devices coupled to the SAN comprises:

if the identifier associated with the first device matches the first SAN device identifier:

- code for instantiating an object using the second code module;
- code for associating the object with the first device; and
- code for using the object to manage the first device.

28. (original) The computer program product of claim 27 wherein the code for determining the identifier associated with the first device comprises code for using SNMP protocol to determine the identifier.

29. (original) A computer program product stored on a computer readable medium for loading code modules, the computer program product comprising:

- code for accessing devices information comprising a set of SAN device identifiers including a first SAN device identifier, the devices information further comprising information identifying code modules associated with each SAN device identifier in the set of SAN device identifiers including information identifying a first code module associated with the first SAN device identifier;

- code for loading the code modules associated with the set of SAN device identifiers into an address space of an executing application program;

- code for using the set of loaded code modules to manage a SAN;

- code for receiving a signal indicating that the devices information has been modified, the modified devices information including a second SAN device identifier and a second code module associated with the second SAN device identifier, the second SAN device identifier not included in the set of SAN device identifiers included in the devices information before modification;

- code for loading the second code module into the address space of the executing application program in response to the signal; and

- code for using the loaded code modules corresponding to the set of SAN device identifiers and the second code module to manage the SAN.

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30. (original) The computer program product of claim 29 wherein the code for using the loaded code modules corresponding to the set of SAN device identifiers and the second code module to manage the SAN comprises:

code for scanning the SAN to identify a set of devices coupled to the SAN;

for each device in the set of devices:

code for determining an identifier associated with the device;

if the identifier associated with the device matches the first SAN device identifier, code for using the first code module loaded into the address space of the executing application program to monitor the device; and

if the identifier associated with the device matches the second SAN device identifier, code for using the second code module loaded into the address space of the executing application program to monitor the device.

31. (original) The computer program product of claim 30 wherein the code for using the second code module loaded into the address space of the executing application program to monitor the device comprises:

instantiating an object using the second code module;

associating the object with the device whose identifier matches the second SAN device identifier; and

using the object to manage the device.

32. (original) The computer program product of claim 30 wherein the code for determining the identifier associated with the device comprises code for using SNMP protocol to determine the identifier.

33. (original) A computer program product stored on a computer readable medium for dynamically loading code modules, the computer program product comprising:

code for accessing information related to a SAN device identifier, the information related to the SAN identifier including information identifying a code module associated with the SAN device identifier;

code for loading the code module into an address space of an executing application program;

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code for using the loaded code modules to manage devices in a SAN;  
code for receiving a signal indicating that the code module has been modified;  
code for deleting the previously loaded code module from the address space of the executing application program in response to the signal; and  
code for loading the modified code module into the address space of the executing application program.

34. (original) A network system comprising:  
a SAN network comprising at least one SAN device; and  
a computer system coupled to the SAN network, the computer system comprising:  
a processor;  
a memory coupled to the processor, the memory configured to store a program for controlling the processor; and  
the processor operative with the program to  
access device information, the device information comprising information identifying a set of SAN device identifiers and a set of code modules associated with the set of SAN device identifiers;  
load the set of code modules referenced by the device information into an address space of the program executed by the processor;  
receive, while the program is executed by the processor, a signal indicating that the device information has been modified to produce modified device information;  
in response to the signal:  
delete the set of code modules referenced by the device information before modification from the address space of the program executed by the processor;  
access the modified device information; and  
load a set of code modules referenced by the modified device information into the address space of the program executed by the processor.

35. (currently amended) A network system comprising:  
a SAN network comprising a plurality of devices; and  
a computer system coupled to the SAN network, the computer system comprising:  
a processor;

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a memory coupled to the processor, the memory configured to store a program for controlling the processor; and the processor operative with the program to

~~program for controlling the processor; and~~

access device information, the device information including information related to a set of SAN device identifiers and information identifying a set of code modules associated with the set of SAN device identifiers, the device information including information related to a first SAN device identifier and a first code module associated with the first SAN device identifier;

load the set of code modules identified in the device information into an address space of the program executed by the processor;

use the set of code modules to manage devices from the plurality of devices coupled to the SAN whose device identifiers match identifiers in the set of SAN device identifiers;

receive, while the program is executed by the processor, a signal indicating that the device information has been modified, the modified device information not including information related to the first SAN device identifier;

in response to the signal, delete the first code module associated with the first SAN device identifier from the address space of the program executed the ~~first SAN device identifier from the processor.~~

36. (original) The system of claim 35 wherein:

the device information before modification is stored in a set of files, each file including information related to a SAN device identifier from the set of SAN device identifiers and information related to a code module associated with the SAN device identifier, the set of files including a first file including information related to the first SAN device identifier and information identifying the first code associated with the first SAN device identifier; and

the modified device information is stored in a set of files not including the first file.

37. (currently amended) A network system comprising:

a SAN network comprising a plurality of devices; and

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a computer system coupled to the SAN network, the computer system comprising:

- a processor;
- a memory coupled to the processor, the memory configured to store a program for controlling the processor; and

the processor operative with the program to

- access information related to a first SAN device identifier, the information related to the first SAN identifier including information identifying a first code module associated with the first SAN device identifier;
- load the first code module into an address space of the program executed by the processor;
- receive, while the program is executed by the processor, a signal indicating that the information related to the first SAN device identifier has been modified, the modified information identifying a second code module associated with the first SAN device identifier instead of the first code module; and
- in response to the signal:
  - delete the first code module associated with the first SAN device identifier from the address space of the executing program; and
  - load the second code module into the address space of the program executed by the processor.

38. (original) The system of claim 37 wherein:

before receiving the signal, the processor is operative with the program to:

- scan the SAN to identify at least a first device coupled to the SAN;
- determine an identifier associated with the first device; and
- if the identifier associated with the first device matches the first SAN device identifier, use the first code module loaded into the address space of the program to monitor the first device; and

after loading the second code module, the processor is operative with the program to use the second code module loaded into the address space of the program to monitor the first device if the identifier associated with the first device matches the first SAN device identifier.



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39. (original) The system of claim 38 wherein to use the second code module loaded into the address space of the program executed by the processor to monitor the first device, the processor is further operative with the program to:

- instantiate an object using the second code module;
- associate the object with the first device; and
- use the object to monitor the first device.

40. (original) The system of claim 38 wherein in order to determine the identifier associated with the first device, the processor is further operative with the program to use SNMP protocol to determine the identifier.

41. (currently amended) A network system comprising:  
a SAN network comprising a plurality of devices; and  
a computer system coupled to the SAN network, the computer system comprising:  
a processor;  
a memory coupled to the processor, the memory configured to store a program for controlling the processor; and  
the processor operative with the program to  
access devices information comprising a set of SAN device identifiers including a first SAN device identifier, the devices information further comprising information identifying code modules associated with SAN device identifiers in the set of SAN device identifiers including information identifying a first code module associated with the first SAN device identifier;  
load the set of code modules associated with the set of SAN device identifiers ~~including includes~~ the first code module into an address space of the program executed by the processor; and  
receive, while the program is executed by the processor, a signal indicating that the devices information has been modified, the modified devices information including a second SAN device identifier and a second code module associated with the second SAN device identifier, the second SAN device identifier not included in the set of SAN device identifiers included in the devices information before modification;

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in response to the signal, load the second code module into the address space of the program executed by the processor.

42. (original) The system of claim 41 wherein the processor is further operative with the program to:

scan the SAN to identify a set of devices coupled to the SAN;

for each device in the set of devices:

determine an identifier associated with the device;

if the identifier associated with the device matches the first SAN device identifier, use the first code module loaded into the address space of the program to monitor the device; and

if the identifier associated with the device matches the second SAN device identifier, use the second code module loaded into the address space of the program to monitor the device.

43. (currently amended) The system of claim 42 wherein in order to use the second code module loaded into the address space of the program to monitor the device, the processor is further operative with the program to:

instantiate an object using the second code module;

associate the object with the device whose [[.]]identifier matches the second SAN device identifier; and

use the object to monitor the device.

44. (original) The system of claim 42 wherein in order to determine the identifier associated with the device, the processor is further operative with the program to use SNMP protocol to determine the identifier.

45. (original) The system of claim 41 wherein the devices information is stored in a plurality of files, each file including information related to a SAN device identifier from the set of SAN device identifiers and information related to a code module from the set of code modules associated with the SAN device identifier.

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46. (currently amended) A network system comprising:  
a SAN network comprising a plurality of devices; and  
a computer system coupled to the SAN network, the computer system comprising:  
a processor;  
a memory coupled to the processor, the memory configured to store a program  
for controlling the processor; and  
the processor operative the program to  
access information related to a SAN device identifier, the information  
related ~~relating~~ to the SAN identifier including information identifying a code module  
associated with the SAN device identifier;  
load the code module into an address space of the program executed by  
the processor;  
receive, while the program is executed by the processor, a signal  
indicating that the code module has been modified;  
in response to the signal:  
delete the previously loaded code module from the address space  
of the executing program; and  
load the modified code module into the ~~an~~ address space of the  
executing program.